

09/987464

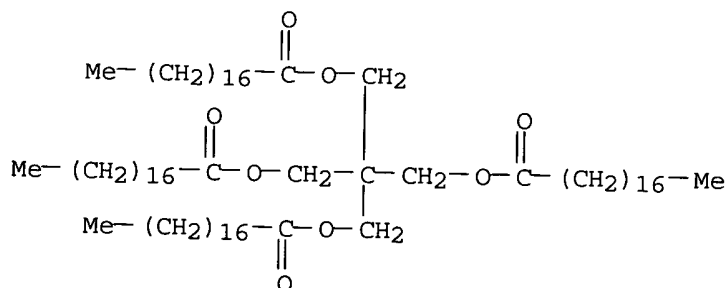
L11 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2003 ACS
AN 2001:673606 HCAPLUS
DN 135:249403
TI Electrophotographic **toner**, two-component electrophotographic
developer, and method for forming electrophotographic image
IN Omura, Takeshi; Matsumoto, Yoshiyasu; Kitani, Ryuji; Yamauchi, Yasuko;
Uchida, Masafumi
PA Konica Co., Japan
SO Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001249486	A2	20010914	JP 2000-61938	20000307
				JP 2000-61938	20000307

AB The **toner** contains a binder resin, a colorant, and a wax mixt.
comprising a fatty acid ester having endothermic peaks at 60-105.degree.
in DSC, a low-m.p. hydrocarbon having the peaks at 60-105.degree., and a
high-m.p. hydrocarbon wax having the peaks at 120-160.degree.. The
2-component electrophotog. developer consists of the **toner** and a
silicone-coated carrier. A latent image on an electrophotog.
photoconductor is developed by the 2-component developer, transferred to a
substrate, and fixed by using a heater-involving roller covered with
5-300-.mu.m fluoropolymer layer showing surface roughness Ra 0.1-1.0 .mu.m
and a pressing roller covered with 10-500-.mu.m fluoropolymer layer having
Ra 0.2-2.0 .mu.m. The **toner**, developer, and the method are
suitable for printing on thick substrates, e.g., cardboards, etc., in an
app. free from a means of cleaning of the hot roller.

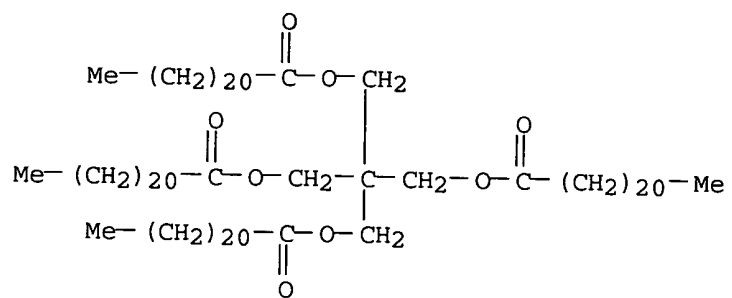
IT 115-83-3, Pentaerythritol tetrastearate 61682-73-3,
Pentaerythritol tetrabehenate
RL: TEM (Technical or engineered material use); USES (Uses)
(wax; **toner** contg. wax mixt. of fatty acid ester and
hydrocarbons for developer with carrier)

RN 115-83-3 HCAPLUS
CN Octadecanoic acid, 2,2-bis[[[(1-oxooctadecyl)oxy]methyl]-1,3-propanediyl
ester (9CI) (CA INDEX NAME)



RN 61682-73-3 HCAPLUS
CN Docosanoic acid, 2,2-bis[[[(1-oxodocosyl)oxy]methyl]-1,3-propanediyl ester
(9CI) (CA INDEX NAME)

09/987464



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L11 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2003 ACS

AN 2002:408370 HCAPLUS

DN 137:13203

TI Drop-out printed material for optical character reader formed by electrophotographic orange **toner**

IN Oba, Katsunori; Furukawara, Toshiro; Amagai, Shinji

PA Dainippon Ink and Chemicals, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002156794	A2	20020531	JP 2000-354156	20001121
				JP 2000-354156	20001121

OS MARPAT 137:13203

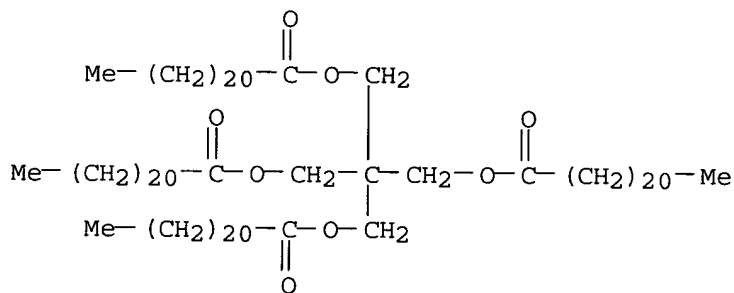
AB The drop-out image for optical character reader, formed by an electrophotog. orange **toner** contg. a binder, an orange colorant or a mixt of a yellow and red colorants, satisfies $1 - (R_d/R_n) \cdot \text{ltoreq.} 0.04$ (R_d = reflectivity of drop-out printed image; R_n = reflectivity of nonimage part at irradiation of 620 nm light). Orange images with good color saturation for drop-out image for optical character reader are obtained.

IT **61682-73-3**

RL: TEM (Technical or engineered material use); USES (Uses)
(wax; electrophotog. orange **toner** contg. orange colorant or mixt. of yellow and red colorants for drop-out image formation)

RN 61682-73-3 HCAPLUS

CN Docosanoic acid, 2,2-bis[[[(1-oxodocosyl)oxy]methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)



09/987464

=> d fbib kwic hitstr 1-12; fil stnguide

L13 ANSWER 1 OF 12 HCAPLUS COPYRIGHT 2003 ACS

AN 2002:904539 HCAPLUS

DN 137:391038

TI Electrostatic image development **toner** showing improved

fixability, offset-resistance, color reproduction, and transparency

IN Sato, Yoshihiro; Ogura, Katsuyuki; Shimada, Katsunori; Sunouchi, Junko

PA Dainippon Ink and Chemicals, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 24 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 2002341595	A2	20021127	JP 2001-146439	20010516
				JP 2001-146439	20010516

OS MARPAT 137:391038

TI Electrostatic image development **toner** showing improved

fixability, offset-resistance, color reproduction, and transparency

AB The title **toner** comprises (1) a **polyester** binder

prepd. from [A] a polybasic acid compd.(s) and [B] an aliph. diol

compd.(s) (excluding bisphenol-A type diol), and (2) an azo prepigment

(C.I. Pigment Yellow 180) and showing a BET sp. surface area of .gtoreq.10

m²/g. The **toner** also contains lubricants. The **toner**

shows excellent properties and stable performance.

ST electrophotog **toner** electrog **polyester** binder azo
pigment

IT Fatty acids, preparation

RL: SPN (Synthetic preparation); TEM (Technical or engineered material
use); PREP (Preparation); USES (Uses)

(C9-11-branched, glycidyl esters; **polyester** binder in

electrostatic image development **toner** showing improved

fixability, offset-resistance, color reprodn., and transparency)

IT Electrographic **toners**

Electrophotographic **toners**

(electrostatic image development **toner** showing improved

fixability, offset-resistance, color reprodn., and transparency)

IT Carnauba wax

RL: TEM (Technical or engineered material use); USES (Uses)

(lubricant in electrostatic image development **toner** showing

improved fixability, offset-resistance, color reprodn., and

transparency)

IT **Polyesters**, preparation

RL: SPN (Synthetic preparation); TEM (Technical or engineered material
use); PREP (Preparation); USES (Uses)

(**polyester** binder in electrostatic image development

toner showing improved fixability, offset-resistance, color

reprodn., and transparency)

IT 9010-79-1, Viscol 550P **61682-73-3**, Pentaerythritol tetrabehenate

RL: TEM (Technical or engineered material use); USES (Uses)

(lubricant in electrostatic image development **toner** showing

improved fixability, offset-resistance, color reprodn., and

transparency)

IT 77804-81-0P, C.I.Pigment Yellow 180

RL: SPN (Synthetic preparation); TEM (Technical or engineered material
use); PREP (Preparation); USES (Uses)

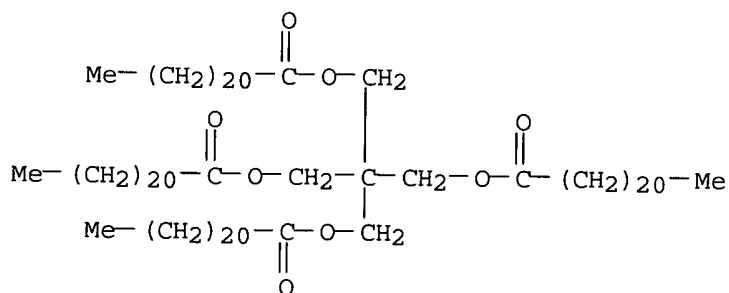
(pigment in electrostatic image development **toner** showing

improved fixability, offset-resistance, color reprodn., and

transparency)

09/987464

- IT 147-14-8, KET Blue 111 980-26-7, Fastogen Super Magenta R
RL: TEM (Technical or engineered material use); USES (Uses)
(pigment in electrostatic image development **toner** showing
improved fixability, offset-resistance, color reprodn., and
transparency)
- IT 57-55-6DP, Propylene glycol, **polyesters** of 100-21-0DP,
Terephthalic acid, **polyesters** of 107-21-1DP, Ethylene
glycol, **polyesters** of 126-30-7DP, Neopentyl glycol,
polyesters of 53808-42-7P, Ethylene glycol-neopentyl glycol-
terephthalic acid-trimethylolpropane copolymer 65581-98-8DP,
Epilcon 830, **polyesters** of 152222-46-3P, Ethylene
glycol-neopentyl glycol-propylene glycol-**terephthalic acid**
copolymer 402939-72-4P, Cyclohexanedimethanol-ethylene
glycol-naphthalenedicarboxylic acid-neopentyl glycol-**terephthalic**
acid copolymer
RL: SPN (Synthetic preparation); TEM (Technical or engineered material
use); PREP (Preparation); USES (Uses)
(**polyester** binder in electrostatic image development
toner showing improved fixability, offset-resistance, color
reprodn., and transparency)
- IT 26576-46-5, 5-Acetoacetyl amino-benzimidazolone 52411-34-4,
1,2-Bis(2-aminophenoxy)ethane
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of azo pigment for electrostatic image development
toner)
- IT **61682-73-3**, Pentaerythritol tetrabehenate
RL: TEM (Technical or engineered material use); USES (Uses)
(lubricant in electrostatic image development **toner** showing
improved fixability, offset-resistance, color reprodn., and
transparency)
- RN 61682-73-3 HCAPLUS
CN Docosanoic acid, 2,2-bis[[[(1-oxodocosyl)oxy]methyl]-1,3-propanediyl ester
(9CI) (CA INDEX NAME)



L13 ANSWER 2 OF 12 HCAPLUS COPYRIGHT 2003 ACS
AN 2002:901581 HCAPLUS
DN 138:9612
TI Electrostatic image development **toner** showing improved
fixability, offset-resistance, color reproduction, and transparency
IN Sato, Yoshihiro; Ogura, Katsuyuki; Shimada, Katsunori; Sunouchi, Junko
PA Dainippon Ink and Chemicals, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 24 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1
PATENT NO. KIND DATE APPLICATION NO. DATE

PI	JP 2002341594	A2	20021127	JP 2001-146438	20010516
				JP 2001-146438	20010516

OS MARPAT 138:9612

TI Electrostatic image development **toner** showing improved fixability, offset-resistance, color reproduction, and transparency

AB The title **toner** comprises (1) a **polyester** binder prepd. from [A] a polybasic acid compd.(s) and [B] an aliph. diol compd.(s) (excluding bisphenol-A type diol), and (2) an azo prepigment (C.I. Pigment Yellow 180) and showing a BET sp. surface area of .gtoreq.10 m²/g. The **toner** also contains lubricants. The **toner** shows excellent properties and stable performance.

ST electrophotog **toner** electrog **polyester** binder azo pigment

IT Electrophotographic **toners**
Electrophotographic **toners**
(electrostatic image development **toner** showing improved fixability, offset-resistance, color reprodn., and transparency)

IT Carnauba wax
RL: TEM (Technical or engineered material use); USES (Uses)
(lubricant in electrostatic image development **toner** showing improved fixability, offset-resistance, color reprodn., and transparency)

IT **Polyesters**, preparation
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(**polyester** binder in electrostatic image development **toner** showing improved fixability, offset-resistance, color reprodn., and transparency)

IT 9010-79-1, Viscol 550P **61682-73-3**, Pentaerythritol tetrabehenate
RL: TEM (Technical or engineered material use); USES (Uses)
(lubricant in electrostatic image development **toner** showing improved fixability, offset-resistance, color reprodn., and transparency)

IT 77804-81-0P, C.I.Pigment Yellow 180
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(pigment in electrostatic image development **toner** showing improved fixability, offset-resistance, color reprodn., and transparency)

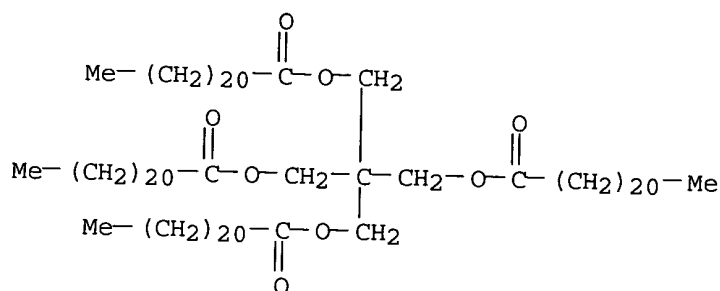
IT 147-14-8, KET Blue 111 980-26-7, Fastogen Super Magenta R
RL: TEM (Technical or engineered material use); USES (Uses)
(pigment in electrostatic image development **toner** showing improved fixability, offset-resistance, color reprodn., and transparency)

IT 79293-17-7P, Ethoxylated bisphenol A-ethylene glycol-**terephthalic** acid copolymer 88285-63-6P, Ethylene glycol-propoxylated bisphenol A-**terephthalic** acid copolymer 125072-23-3P, Ethylene glycol-propoxylated bisphenol A-**terephthalic** acid-trimethylol propane copolymer 446235-77-4P, Epiclon N 695-ethoxylated bisphenol A-ethylene glycol-**terephthalic** acid copolymer
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(**polyester** binder in electrostatic image development **toner** showing improved fixability, offset-resistance, color reprodn., and transparency)

IT 26576-46-5, 5-Acetoacetyl-amino-benzimidazolone 52411-34-4, 1,2-Bis(2-aminophenoxy)ethane
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of azo pigment for electrostatic image development **toner**)

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IT 61682-73-3, Pentaerythritol tetrabehenate
RL: TEM (Technical or engineered material use); USES (Uses)
(lubricant in electrostatic image development **toner** showing
improved fixability, offset-resistance, color reprodn., and
transparency)
RN 61682-73-3 HCAPLUS
CN Docosanoic acid, 2,2-bis[[(1-oxodocosyl)oxy)methyl]-1,3-propanediyl ester
(9CI) (CA INDEX NAME)



L13 ANSWER 3 OF 12 HCAPLUS COPYRIGHT 2003 ACS
AN 2002:408370 HCAPLUS
DN 137:13203
TI Drop-out printed material for optical character reader formed by
electrophotographic orange **toner**
IN Oba, Katsunori; Furukawara, Toshiro; Amagai, Shinji
PA Dainippon Ink and Chemicals, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002156794	A2	20020531	JP 2000-354156	20001121
				JP 2000-354156	20001121

OS MARPAT 137:13203
TI Drop-out printed material for optical character reader formed by
electrophotographic orange **toner**
AB The drop-out image for optical character reader, formed by an
electrophotog. orange **toner** contg. a binder, an orange colorant
or a mixt of a yellow and red colorants, satisfies $1 - (R_d/R_n)$
ltoreq.0.04.
ST electrophotog **toner** orange red yellow colorant; orange
toner dropout image optical character reader; wax binder
electrophotog orange **toner**
IT **Polyesters**, preparation
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material
use); PREP (Preparation); USES (Uses)
(binder; electrophotog. orange **toner** contg. orange colorant
or mixt. of yellow and red colorants for drop-out image formation)
IT Electrophotographic **toners**
(electrophotog. orange **toner** contg. orange colorant or mixt.
of yellow and red colorants for drop-out image formation)
IT Carnauba wax
Montan wax
RL: TEM (Technical or engineered material use); USES (Uses)
(electrophotog. orange **toner** contg. orange colorant or mixt.

of yellow and red colorants for drop-out image formation)

IT Waxes
 RL: TEM (Technical or engineered material use); USES (Uses)
 (rice bran; electrophotog. orange **toner** contg. orange colorant or mixt. of yellow and red colorants for drop-out image formation)

IT Bran
 RL: TEM (Technical or engineered material use); USES (Uses)
 (rice, waxes; electrophotog. orange **toner** contg. orange colorant or mixt. of yellow and red colorants for drop-out image formation)

IT 1324-33-0, C.I. Pigment Red 216
 RL: TEM (Technical or engineered material use); USES (Uses)
 (C.I. Pigment Red 216; electrophotog. orange **toner** contg. orange colorant or mixt. of yellow and red colorants for drop-out image formation)

IT 53808-42-7P, Ethylene glycol-neopentyl glycol-**terephthalic** acid-trimethylolpropane copolymer 88285-63-6P, Ethylene glycol-polyoxypropylene-(2,2)-2,2-bis(4-hydroxyphenyl)propane-**terephthalic** acid copolymer
 RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (binder; electrophotog. orange **toner** contg. orange colorant or mixt. of yellow and red colorants for drop-out image formation)

IT 128-69-8, C.I. Pigment Red 224 128-70-1, C.I. Pigment Orange 40
 475-71-8, C.I. Pigment Yellow 24 980-26-7, C.I. Pigment Red 122
 1103-38-4, C.I. Pigment Red 49:1 1103-39-5, C.I. Pigment Red 49:2
 1325-14-0, C.I. Pigment Orange 18 1325-19-5, C.I. Pigment Red 66
 1325-21-9, C.I. Pigment Red 65 1325-22-0, C.I. Pigment Red 67
 1326-11-0, C.I. Pigment Yellow 18 1657-16-5, C.I. Pigment Yellow 4
 2379-77-3, C.I. Pigment Red 189 2387-03-3, C.I. Pigment Yellow 101
 2425-85-6, C.I. Pigment Red 3 2512-29-0, C.I. Pigment Yellow 1
 2786-76-7, C.I. Pigment Red 170 2814-77-9, C.I. Pigment Red 4
 3049-71-6, C.I. Pigment Red 178 3089-17-6, C.I. Pigment Red 202
 3468-63-1, C.I. Pigment Orange 5 3520-72-7, C.I. Pigment Orange 13
 3564-22-5, C.I. Pigment Red 18 3573-01-1, C.I. Pigment Red 209
 3905-19-9, C.I. Pigment Red 166 4028-94-8, C.I. Pigment Yellow 123
 4051-63-2, C.I. Pigment Red 177 4106-67-6, C.I. Pigment Yellow 5
 4106-76-7, C.I. Pigment Yellow 6 4118-16-5, C.I. Pigment Yellow 147
 4216-01-7, C.I. Pigment Yellow 108 4216-02-8, C.I. Pigment Red 194
 4378-61-4, C.I. Pigment Red 168 4424-06-0, C.I. Pigment Orange 43
 4531-49-1, C.I. Pigment Yellow 17 4948-15-6, C.I. Pigment Red 149
 5045-40-9, C.I. Pigment Yellow 109 5102-83-0, C.I. Pigment Yellow 13
 5160-02-1, C.I. Pigment Red 53:1 5280-66-0, C.I. Pigment Red 48:4
 5280-67-1, C.I. Pigment Red 133 5280-68-2, C.I. Pigment Red 146
 5280-74-0, C.I. Pigment Orange 31 5280-78-4, C.I. Pigment Red 144
 5280-80-8, C.I. Pigment Yellow 95 5281-04-9, C.I. Pigment Red 57:1
 5468-75-7, C.I. Pigment Yellow 14 5521-31-3, C.I. Pigment Red 179
 5567-15-7, C.I. Pigment Yellow 83 5580-57-4, C.I. Pigment Yellow 93
 5580-58-5, C.I. Pigment Yellow 94 5590-18-1, C.I. Pigment Yellow 110
 5850-80-6, C.I. Pigment Red 68 5858-88-8, C.I. Pigment Orange 19
 5979-28-2, C.I. Pigment Yellow 16 6041-94-7, C.I. Pigment Red 2
 6358-31-2, C.I. Pigment Yellow 74 6358-37-8, C.I. Pigment Yellow 55
 6358-40-3, C.I. Pigment Red 115 6358-47-0, C.I. Pigment Red 114
 6358-85-6, C.I. Pigment Yellow 12 6358-87-8, C.I. Pigment Red 38
 6358-88-9, C.I. Pigment Orange 15 6358-90-3, C.I. Pigment Red 42
 6371-76-2, C.I. Pigment Red 64:1 6371-96-6, C.I. Pigment Orange 1
 6372-81-2, C.I. Pigment Red 50:1 6373-10-0, C.I. Pigment Red 54
 6410-09-9, C.I. Pigment Orange 2 6410-10-2, C.I. Pigment Red 1
 6410-13-5, C.I. Pigment Red 6 6410-30-6, C.I. Pigment Red 8 6410-32-8, C.I. Pigment Red 12
 6410-35-1, C.I. Pigment Red 10 6410-38-4, C.I.

Pigment Red 9 6410-39-5, C.I. Pigment Red 15 6410-41-9, C.I. Pigment Red 5 6417-83-0, C.I. Pigment Red 63:1 6424-77-7, C.I. Pigment Red 190 6448-95-9, C.I. Pigment Red 22 6448-96-0, C.I. Pigment Red 31 6471-49-4, C.I. Pigment Red 23 6471-50-7, C.I. Pigment Red 14 6471-51-8, C.I. Pigment Red 7 6486-23-3, C.I. Pigment Yellow 3 6505-28-8, C.I. Pigment Orange 16 6505-29-9, C.I. Pigment Red 41 6528-34-3, C.I. Pigment Yellow 65 6528-35-4, C.I. Pigment Yellow 15 6535-46-2, C.I. Pigment Red 112 6655-84-1, C.I. Pigment Red 17 6883-91-6, C.I. Pigment Red 37 6985-92-8, C.I. Pigment Red 175 6985-95-1, C.I. Pigment Red 171 7023-61-2, C.I. Pigment Red 48:2 7585-41-3, C.I. Pigment Red 48:1 12224-98-5, C.I. Pigment Red 81 12225-06-8, C.I. Pigment Red 176 12225-18-2, C.I. Pigment Yellow 97 12225-21-7, C.I. Pigment Yellow 100 12227-62-2, C.I. Pigment Red 193 12227-78-0, C.I. Pigment Red 172 12236-62-3, C.I. Pigment Orange 36 12236-64-5, C.I. Pigment Orange 38 12238-31-2, C.I. Pigment Red 52:2 12768-99-9, C.I. Pigment Orange 42 13515-40-7, C.I. Pigment Yellow 73 14295-43-3, C.I. Pigment Red 88 14359-20-7, C.I. Pigment Yellow 113 15110-84-6, C.I. Pigment Yellow 87 15680-42-9, C.I. Pigment Yellow 129 15782-04-4, C.I. Pigment Orange 17 15782-05-5, C.I. Pigment Red 48:3 15790-07-5, C.I. Pigment Yellow 104 15793-73-4, C.I. Pigment Orange 34 15876-39-8, C.I. Pigment Red 90:1 15876-58-1, C.I. Pigment Red 174 17852-99-2, C.I. Pigment Red 52:1 21405-81-2, C.I. Pigment Yellow 117 22094-93-5, C.I. Pigment Yellow 81 24108-89-2, C.I. Pigment Red 123 29204-84-0, C.I. Pigment Yellow 153 29920-31-8, C.I. Pigment Yellow 120 30125-47-4, C.I. Pigment Yellow 138 31775-16-3, C.I. Pigment Yellow 170 31778-10-6, C.I. Pigment Red 208 31837-42-0, C.I. Pigment Yellow 151 32432-45-4, C.I. Pigment Yellow 98 35355-77-2, C.I. Pigment Red 63:2 36888-99-0, C.I. Pigment Yellow 139 40618-31-3, C.I. Pigment Red 214 43035-18-3, C.I. Pigment Red 247 50326-33-5, C.I. Pigment Red 243 51016-63-8, C.I. Pigment Yellow 173 51868-24-7, C.I. Pigment Red 90 51920-12-8, C.I. Pigment Red 185 52238-92-3, C.I. Pigment Red 242 52846-56-7, C.I. Pigment Orange 62 53815-04-6, C.I. Pigment Yellow 171 56396-10-2, C.I. Pigment Red 150 59487-23-9, C.I. Pigment Red 187 61013-97-6, C.I. Pigment Red 151 61512-61-6, C.I. Pigment Orange 51 61847-48-1, C.I. Pigment Red 188 61968-84-1, C.I. Pigment Yellow 116 63661-26-7, C.I. Pigment Yellow 156 64552-28-9, C.I. Pigment Red 58:4 68016-05-7, C.I. Pigment Red 245 68134-22-5, C.I. Pigment Yellow 154 68227-78-1, C.I. Pigment Red 147 68259-05-2, C.I. Pigment Red 220 68399-99-5, C.I. Pigment Orange 60 68516-73-4, C.I. Pigment Yellow 155 71566-54-6, C.I. Pigment Red 221 71832-85-4, C.I. Pigment Yellow 168 73385-03-2, C.I. Pigment Yellow 169 76233-80-2, C.I. Pigment Yellow 172 77804-81-0, C.I. Pigment Yellow 180 79953-85-8, C.I. Pigment Yellow 128 85702-53-0, C.I. Pigment Yellow 133 104074-25-1, C.I. Pigment Red 83 431991-58-1, Benzenesulfonic acid, 4-chloro-2-[[2-hydroxy-3-[(2-methoxyphenyl)amino]carbonyl]-1-naphthalenyl]azo]-5-methyl-, manganese complex 431991-59-2, Pigment Red 246

RL: TEM (Technical or engineered material use); USES (Uses)
 (electrophotog. orange **toner** contg. orange colorant or mixt.
 of yellow and red colorants for drop-out image formation)

IT 9003-07-0, Polypropylene **61682-73-3**

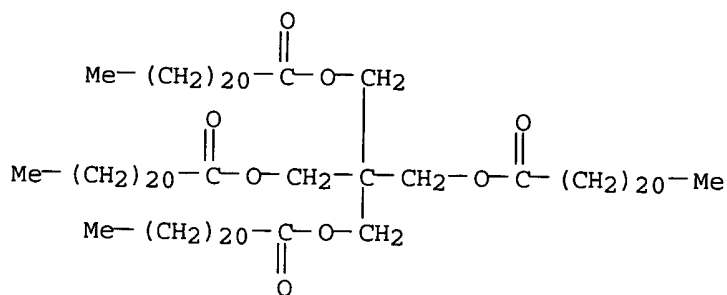
RL: TEM (Technical or engineered material use); USES (Uses)
 (wax; electrophotog. orange **toner** contg. orange colorant or
 mixt. of yellow and red colorants for drop-out image formation)

IT **61682-73-3**

RL: TEM (Technical or engineered material use); USES (Uses)
 (wax; electrophotog. orange **toner** contg. orange colorant or
 mixt. of yellow and red colorants for drop-out image formation)

RN 61682-73-3 HCAPLUS

CN Docosanoic acid, 2,2-bis[[[(1-oxodocosyl)oxy]methyl]-1,3-propanediyl ester
 (9CI) (CA INDEX NAME)



L13 ANSWER 4 OF 12 HCAPLUS COPYRIGHT 2003 ACS

AN 2002:407180 HCAPLUS

DN 137:13202

TI Electrophotographic orange **toner**

IN Oba, Katsunori; Furukawara, Toshiro; Amagai, Shinji

PA Dainippon Ink and Chemicals, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 2002156776	A2	20020531	JP 2000-354157	20001121
				JP 2000-354157	20001121

OS MARPAT 137:13202

TI Electrophotographic orange **toner**

AB The **toner** comprises a **polyester** binder resin, wax mainly contg. higher fatty acid ester and/or fatty alc., and a coloring agent contg. an orange colorant or a mixt. of yellow and red colorants. The **toner** shows good antioffset property and gives clear orange images without fog.

ST electrophotog orange **toner polyester** binder; wax
electrophotog orange **toner**

IT **Polyesters**, preparation

RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(binder; electrophotog. orange **toner** contg. orange colorant or mixt. of yellow and red colorants)

IT Electrophotographic **toners**

(electrophotog. orange **toner** contg. orange colorant or mixt. of yellow and red colorants)

IT Carnauba wax

Montan wax

RL: TEM (Technical or engineered material use); USES (Uses)

(electrophotog. orange **toner** contg. orange colorant or mixt. of yellow and red colorants)

IT Waxes

RL: TEM (Technical or engineered material use); USES (Uses)

(rice bran; electrophotog. orange **toner** contg. orange colorant or mixt. of yellow and red colorants)

IT Bran

RL: TEM (Technical or engineered material use); USES (Uses)

(rice, waxes; electrophotog. orange **toner** contg. orange colorant or mixt. of yellow and red colorants)

IT 1324-33-0, C.I. Pigment Red 216

RL: TEM (Technical or engineered material use); USES (Uses)

(C.I. Pigment Red 216; electrophotog. orange **toner** contg. orange colorant or mixt. of yellow and red colorants)

IT 53808-42-7P, Ethylene glycol-neopentyl glycol-**terephthalic** acid-trimethylolpropane copolymer 88285-63-6P, Ethylene glycol-polyoxypropylene-(2,2)-2,2-bis(4-hydroxyphenyl)propane-**terephthalic** acid copolymer

RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(binder; electrophotog. orange **toner** contg. orange colorant or mixt. of yellow and red colorants)

IT 128-69-8, C.I. Pigment Red 224 128-70-1, C.I. Pigment Orange 40
 475-71-8, C.I. Pigment Yellow 24 980-26-7, C.I. Pigment Red 122
 1103-38-4, C.I. Pigment Red 49:1 1103-39-5, C.I. Pigment Red 49:2
 1325-14-0, C.I. Pigment Orange 18 1325-19-5, C.I. Pigment Red 66
 1325-21-9, C.I. Pigment Red 65 1325-22-0, C.I. Pigment Red 67
 1326-11-0, C.I. Pigment Yellow 18 1657-16-5, C.I. Pigment Yellow 4
 2379-77-3, C.I. Pigment Red 189 2387-03-3, C.I. Pigment Yellow 101
 2425-85-6, C.I. Pigment Red 3 2512-29-0, C.I. Pigment Yellow 1
 2786-76-7, C.I. Pigment Red 170 2814-77-9, C.I. Pigment Red 4
 3049-71-6, C.I. Pigment Red 178 3089-17-6, C.I. Pigment Red 202
 3468-63-1, C.I. Pigment Orange 5 3520-72-7, C.I. Pigment Orange 13
 3564-22-5, C.I. Pigment Red 18 3573-01-1, C.I. Pigment Red 209
 3905-19-9, C.I. Pigment Red 166 4028-94-8, C.I. Pigment Yellow 123
 4051-63-2, C.I. Pigment Red 177 4106-67-6, C.I. Pigment Yellow 5
 4106-76-7, C.I. Pigment Yellow 6 4118-16-5, C.I. Pigment Yellow 147
 4216-01-7, C.I. Pigment Yellow 108 4216-02-8, C.I. Pigment Red 194
 4378-61-4, C.I. Pigment Red 168 4424-06-0, C.I. Pigment Orange 43
 4531-49-1, C.I. Pigment Yellow 17 4948-15-6, C.I. Pigment Red 149
 5045-40-9, C.I. Pigment Yellow 109 5102-83-0, C.I. Pigment Yellow 13
 5160-02-1, C.I. Pigment Red 53:1 5280-66-0, C.I. Pigment Red 48:4
 5280-67-1, C.I. Pigment Red 133 5280-68-2, C.I. Pigment Red 146
 5280-74-0, C.I. Pigment Orange 31 5280-78-4, C.I. Pigment Red 144
 5280-80-8, C.I. Pigment Yellow 95 5281-04-9, C.I. Pigment Red 57:1
 5468-75-7, C.I. Pigment Yellow 14 5521-31-3, C.I. Pigment Red 179
 5567-15-7, C.I. Pigment Yellow 83 5580-57-4, C.I. Pigment Yellow 93
 5580-58-5, C.I. Pigment Yellow 94 5590-18-1, C.I. Pigment Yellow 110
 5850-80-6, C.I. Pigment Red 68 5858-88-8, C.I. Pigment Orange 19
 5979-28-2, C.I. Pigment Yellow 16 6041-94-7, C.I. Pigment Red 2
 6358-31-2, C.I. Pigment Yellow 74 6358-37-8, C.I. Pigment Yellow 55
 6358-40-3, C.I. Pigment Red 115 6358-47-0, C.I. Pigment Red 114
 6358-85-6, C.I. Pigment Yellow 12 6358-87-8, C.I. Pigment Red 38
 6358-88-9, C.I. Pigment Orange 15 6358-90-3, C.I. Pigment Red 42
 6371-76-2, C.I. Pigment Red 64:1 6371-96-6, C.I. Pigment Orange 1
 6372-81-2, C.I. Pigment Red 50:1 6373-10-0, C.I. Pigment Red 54
 6410-09-9, C.I. Pigment Orange 2 6410-10-2, C.I. Pigment Red 1
 6410-13-5, C.I. Pigment Red 6 6410-30-6, C.I. Pigment Red 8 6410-32-8, C.I. Pigment Red 12 6410-35-1, C.I. Pigment Red 10 6410-38-4, C.I. Pigment Red 9 6410-39-5, C.I. Pigment Red 15 6410-41-9, C.I. Pigment Red 5 6417-83-0, C.I. Pigment Red 63:1 6424-77-7, C.I. Pigment Red 190
 6448-95-9, C.I. Pigment Red 22 6448-96-0, C.I. Pigment Red 31
 6471-49-4, C.I. Pigment Red 23 6471-50-7, C.I. Pigment Red 14
 6471-51-8, C.I. Pigment Red 7 6486-23-3, C.I. Pigment Yellow 3
 6505-28-8, C.I. Pigment Orange 16 6505-29-9, C.I. Pigment Red 41
 6528-34-3, C.I. Pigment Yellow 65 6528-35-4, C.I. Pigment Yellow 15
 6535-46-2, C.I. Pigment Red 112 6655-84-1, C.I. Pigment Red 17
 6883-91-6, C.I. Pigment Red 37 6985-92-8, C.I. Pigment Red 175
 6985-95-1, C.I. Pigment Red 171 7023-61-2, C.I. Pigment Red 48:2
 7585-41-3, C.I. Pigment Red 48:1 12224-98-5, C.I. Pigment Red 81
 12225-06-8, C.I. Pigment Red 176 12225-18-2, C.I. Pigment Yellow 97
 12225-21-7, C.I. Pigment Yellow 100 12227-62-2, C.I. Pigment Red 193
 12227-78-0, C.I. Pigment Red 172 12236-62-3, C.I. Pigment Orange 36

12236-64-5, C.I. Pigment Orange 38 12238-31-2, C.I. Pigment Red 52:2
 12768-99-9, C.I. Pigment Orange 42 13515-40-7, C.I. Pigment Yellow 73
 14295-43-3, C.I. Pigment Red 88 14359-20-7, C.I. Pigment Yellow 113
 15110-84-6, C.I. Pigment Yellow 87 15680-42-9, C.I. Pigment Yellow 129
 15782-04-4, C.I. Pigment Orange 17 15782-05-5, C.I. Pigment Red 48:3
 15790-07-5, C.I. Pigment Yellow 104 15793-73-4, C.I. Pigment Orange 34
 15876-39-8, C.I. Pigment Red 90:1 15876-58-1, C.I. Pigment Red 174
 17852-99-2, C.I. Pigment Red 52:1 21405-81-2, C.I. Pigment Yellow 117
 22094-93-5, C.I. Pigment Yellow 81 24108-89-2, C.I. Pigment Red 123
 25311-19-7, C.I. Pigment Red 68 29204-84-0, C.I. Pigment Yellow 153
 29920-31-8, C.I. Pigment Yellow 120 30125-47-4, C.I. Pigment Yellow 138
 31775-16-3, C.I. Pigment Yellow 170 31778-10-6, C.I. Pigment Red 208
 31837-42-0, C.I. Pigment Yellow 151 32432-45-4, C.I. Pigment Yellow 98
 35355-77-2, C.I. Pigment Red 63:2 36888-99-0, C.I. Pigment Yellow 139
 40618-31-3, C.I. Pigment Red 214 43035-18-3, C.I. Pigment Red 247
 50326-33-5, C.I. Pigment Red 243 51016-63-8, C.I. Pigment Yellow 173
 51868-24-7, C.I. Pigment Red 90 51920-12-8, C.I. Pigment Red 185
 52238-92-3, C.I. Pigment Red 242 52846-56-7, C.I. Pigment Orange 62
 53815-04-6, C.I. Pigment Yellow 171 56396-10-2, C.I. Pigment Red 150
 59487-23-9, C.I. Pigment Red 187 61013-97-6, C.I. Pigment Red 151
 61512-61-6, C.I. Pigment Orange 51 61847-48-1, C.I. Pigment Red 188
 61968-84-1, C.I. Pigment Yellow 116 63661-26-7, C.I. Pigment Yellow 156
 64552-28-9, C.I. Pigment Red 58:4 68016-05-7, C.I. Pigment Red 245
 68134-22-5, C.I. Pigment Yellow 154 68227-78-1, C.I. Pigment Red 147
 68259-05-2, C.I. Pigment Red 220 68399-99-5, C.I. Pigment Orange 60
 68516-73-4, C.I. Pigment Yellow 155 71566-54-6, C.I. Pigment Red 221
 71832-85-4, C.I. Pigment Yellow 168 73385-03-2, C.I. Pigment Yellow 169
 76233-80-2, C.I. Pigment Yellow 172 77804-81-0, C.I. Pigment Yellow 180
 79953-85-8, C.I. Pigment Yellow 128 85702-53-0, C.I. Pigment Yellow 133
 104074-25-1, C.I. Pigment Red 83 431991-58-1, C.I. Pigment Red 243:1
 431991-59-2, C.I. Pigment Red 246

RL: TEM (Technical or engineered material use); USES (Uses)
 (electrophotog. orange **toner** contg. orange colorant or mixt.
 of yellow and red colorants)

IT **61682-73-3**

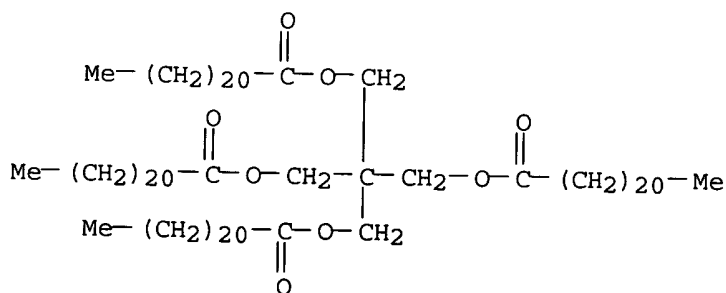
RL: TEM (Technical or engineered material use); USES (Uses)
 (wax; electrophotog. orange **toner** contg. orange colorant or
 mixt. of yellow and red colorants)

IT **61682-73-3**

RL: TEM (Technical or engineered material use); USES (Uses)
 (wax; electrophotog. orange **toner** contg. orange colorant or
 mixt. of yellow and red colorants)

RN 61682-73-3 HCAPLUS

CN Docosanoic acid, 2,2-bis[[[(1-oxodocosyl)oxy]methyl]-1,3-propanediyl ester
 (9CI) (CA INDEX NAME)



09/987464

AN 2002:313365 HCAPLUS
DN 136:348262
TI **Toner** for nonmagnetic one-component development
IN Sato, Yoshihiro; Ogura, Katsuyuki; Nakamura, Masanobu
PA Dainippon Ink and Chemicals, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF

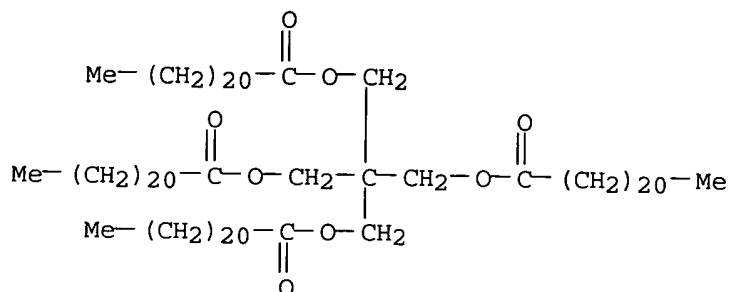
DT Patent
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	JP 2002123035	A2	20020426	JP 2000-316495	20001017
				JP 2000-316495	20001017
OS	MARPAT 136:348262				
TI	Toner for nonmagnetic one-component development				
AB	The invention relates to a toner for nonmagnetic one-component development which is able to charged instantly when it passes between a development sleeve and a charging material. The toner comprises a binder resin, a colorant, a release agent, and a charge controller, wherein (a) the binder resin is a polyester resin, (b) the release agent is a wax based on a higher aliph. acid ester and/or aliph. alc., and (c).				
ST	toner zirconium complex charge controller; polyester binder wax toner ; colorant toner				
IT	Electrographic toners Electrophotographic toners (charge-controller in nonmagnetic one-component development toner)				
IT	Polyesters , uses RL: TEM (Technical or engineered material use); USES (Uses) (polyester binder in nonmagnetic one-component development toner)				
IT	Ceroplastes (wax in nonmagnetic one-component development toner)				
IT	Carnauba wax RL: TEM (Technical or engineered material use); USES (Uses) (wax in nonmagnetic one-component development toner)				
IT	2215-21-6D, zirconium oxo hydroxo complexes 7440-67-7D, Zirconium, oxo hydroxo salicylic acid complexes 19715-19-6D, 3,5-Di-tert-Butylsalicylic acid, zirconium oxo hydroxo complexes 417708-27-1 RL: TEM (Technical or engineered material use); USES (Uses) (charge-controller in nonmagnetic one-component development toner)				
IT	147-14-8, KET Blue 111 980-26-7, Fastogen Super magenta R 77804-81-0, Toner Yellow HG VP2155 RL: TEM (Technical or engineered material use); USES (Uses) (colorant in nonmagnetic one-component development toner)				
IT	165956-59-2P, Ethoxylated bisphenol a- terephthalic acid-trimellitic anhydride copolymer 175284-08-9P, Isophthalic acid-ethoxylated bisphenol a- terephthalic acid copolymer RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (polyester binder in nonmagnetic one-component development toner)				
IT	61682-73-3 , Pentaerythritol tetrabehehenate RL: TEM (Technical or engineered material use); USES (Uses) (wax in nonmagnetic one-component development toner)				
IT	61682-73-3 , Pentaerythritol tetrabehehenate RL: TEM (Technical or engineered material use); USES (Uses) (wax in nonmagnetic one-component development toner)				

09/987464

RN 61682-73-3 HCAPLUS
CN Docosanoic acid, 2,2-bis[[(1-oxodocosyl)oxy]methyl]-1,3-propanediyl ester
(9CI) (CA INDEX NAME)



L13 ANSWER 6 OF 12 HCAPLUS COPYRIGHT 2003 ACS

AN 2002:176325 HCAPLUS

DN 136:239040

TI Electrostatic latent image-developing **toners** with excellent thermal stability

IN Ogura, Katsuyuki; Nakamura, Masanobu

PA Dainippon Ink and Chemicals, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

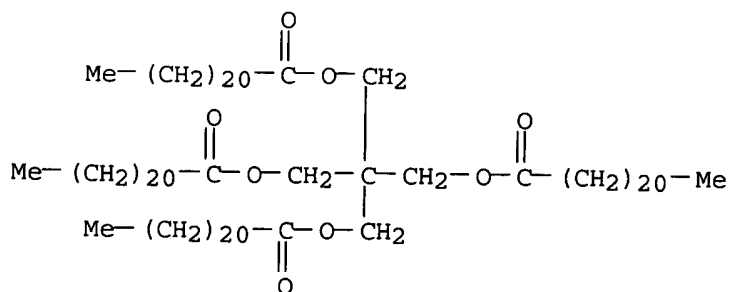
DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 2002072549	A2	20020312	JP 2000-252320	20000823
				JP 2000-252320	20000823
TI	Electrostatic latent image-developing toners with excellent thermal stability				
AB	The toners , giving images with good color reproducibility and transparency, contain polyester binders prepd. from naphthalenedicarboxylic acid and/or its lower alkyl esters and polyhydric alcs., colorants, and mold release agents preferably contg. . . .				
ST	electrophotog toner polyester binder color reproducibility; naphthalenedicarboxylic acid polyester color toner flowability; magnetic toner wax mold release agent; transparency OHP sheet toner thermal stability				
IT	Binders Color electrophotographic toners (electrophotog. toners contg. polyester binders, colorants, and mold release agents with good thermal stability and transparency)				
IT	Polyesters , preparation RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (electrophotog. toners contg. polyester binders, colorants, and mold release agents with good thermal stability and transparency)				
IT	Carnauba wax RL: TEM (Technical or engineered material use); USES (Uses) (electrophotog. toners contg. polyester binders, colorants, and mold release agents with good thermal stability and transparency)				
IT	Parting materials				

- (mold-release agents; electrophotog. **toners** contg. **polyester** binders, colorants, and mold release agents with good thermal stability and transparency)
- IT Paraffin waxes, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(**toner** contg.; electrophotog. **toners** contg. **polyester** binders, colorants, and mold release agents with good thermal stability and transparency)
- IT Electrophotographic **toners**
(two-component developer **toners**; electrophotog. **toners** contg. **polyester** binders, colorants, and mold release agents with good thermal stability and transparency)
- IT 402939-72-4P, Cyclohexanedimethanol-ethylene glycol-naphthalenedicarboxylic acid-neopentyl glycol-**terephthalic** acid copolymer
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(electrophotog. **toners** contg. **polyester** binders, colorants, and mold release agents with good thermal stability and transparency)
- IT 147-14-8, KET Blue 111 980-26-7, Fastogen Super Magenta R 77804-81-0, **Toner** Yellow HG VP 2155 173195-22-7, **Isophthalic** acid-propoxylated bisphenol A-**terephthalic** acid-trimethylolpropane copolymer 402939-46-2, Cyclohexanedimethanol-diethylene glycol-dodecenylsuccinic acid-naphthalenedicarboxylic acid-neopentyl glycol-**terephthalic** acid copolymer 402939-73-5, Cyclohexanedimethanol-diethylene glycol-**isophthalic** acid-naphthalenedicarboxylic acid-neopentyl glycol-**terephthalic** acid copolymer 402939-74-6, Cyclohexanedimethanol-diethylene glycol-**isophthalic** acid-naphthalenedicarboxylic acid-neopentyl glycol-**terephthalic** acid-trimethylolpropane copolymer
RL: TEM (Technical or engineered material use); USES (Uses)
(electrophotog. **toners** contg. **polyester** binders, colorants, and mold release agents with good thermal stability and transparency)
- IT 9010-79-1, Viscol 550P **61682-73-3**, Pentaerythritol tetrabehenate
RL: TEM (Technical or engineered material use); USES (Uses)
(wax; electrophotog. **toners** contg. **polyester** binders, colorants, and mold release agents with good thermal stability and transparency)
- IT **61682-73-3**, Pentaerythritol tetrabehenate
RL: TEM (Technical or engineered material use); USES (Uses)
(wax; electrophotog. **toners** contg. **polyester** binders, colorants, and mold release agents with good thermal stability and transparency)
- RN 61682-73-3 HCAPLUS
- CN Docosanoic acid, 2,2-bis[[[(1-oxodocosyl)oxy]methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)



L13 ANSWER 7 OF 12 HCAPLUS COPYRIGHT 2003 ACS

AN 2002:176324 HCAPLUS

DN 136:239039

TI Electrostatic latent image-developing **toners** containing **polyester** binders with excellent thermal stability

IN Ogura, Katsuyuki; Nakamura, Masanobu

PA Dainippon Ink and Chemicals, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002072548	A2	20020312	JP 2000-252319	20000823
				JP 2000-252319	20000823

OS MARPAT 136:239039

TI Electrostatic latent image-developing **toners** containing **polyester** binders with excellent thermal stability

AB The **toners**, giving images with good color reproducibility and transparency, contain colorants and **polyester** binders prepd. from (A) naphthalenedicarboxylic acid and/or its lower alkyl esters, (B) .gtoreq.1 mol% (on total acid components) dicarboxylic acids. . . + R2 + R3 = 3-20) and/or their lower alkyl esters and/or their anhydrides, and (C) polyhydric alcs. Alternatively, the **polyester** binders are prepd. from A, C, and (D) .gtoreq.1 mol% (on total alc. components) diols HOCHR4XCHR5OH (X = same as. . .

ST electrophotog **toner polyester** binder color reproducibility; naphthalenedicarboxylic acid **polyester** binder **toner** flowability; electrostatic image developer **toner** thermal stability; transparency OHP sheet color **toner** copier

IT Binders

Color electrophotographic **toners**

(electrostatic latent image-developing **toners** contg.

polyester binders and colorants with good thermal stability and transparency)

IT **Polyesters**, preparation

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(electrostatic latent image-developing **toners** contg.

polyester binders and colorants with good thermal stability and transparency)

IT Carnauba wax

Paraffin waxes, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(**toner** contg.; electrostatic latent image-developing

toners contg. **polyester** binders and colorants with good thermal stability and transparency)

IT Electrophotographic **toners**

(two-component developer **toners**; electrostatic latent

image-developing **toners** contg. **polyester** binders

and colorants with good thermal stability and transparency)

IT 402939-44-0P, Dodecenylsuccinic acid-naphthalenedicarboxylic acid-propoxylated bisphenol A-**terephthalic** acid copolymer
402939-45-1P, Cyclohexanedimethanol-dodecenylsuccinic acid-ethylene glycol-naphthalenedicarboxylic acid-neopentyl glycol-**terephthalic** acid copolymer 402939-46-2P, Cyclohexanedimethanol-diethylene glycol-dodecenylsuccinic acid-naphthalenedicarboxylic acid-neopentyl glycol-**terephthalic** acid copolymer 402939-47-3P, 1,12-Dodecanediol-**isophthalic** acid-naphthalenedicarboxylic

acid-propoxylated bisphenol A-**terephthalic** acid copolymer
 402939-48-4P, Cyclohexanedimethanol-1,2-decanediol-dipropylene glycol-
isophthalic acid-naphthalenedicarboxylic acid-neopentyl glycol-
terephthalic acid copolymer

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(electrostatic latent image-developing **toners** contg.

polyester binders and colorants with good thermal stability and transparency)

IT 147-14-8, KET Blue 111 980-26-7, Fastogen Super Magenta R 77804-81-0, **Toner** Yellow HG VP 2155

RL: TEM (Technical or engineered material use); USES (Uses)

(electrostatic latent image-developing **toners** contg.

polyester binders and colorants with good thermal stability and transparency)

IT 9010-79-1, Viscol 550P **61682-73-3**, Pentaerythritol tetrabehenate

RL: TEM (Technical or engineered material use); USES (Uses)

(wax, **toner** contg.; electrostatic latent image-developing

toners contg. **polyester** binders and colorants with good thermal stability and transparency)

IT **61682-73-3**, Pentaerythritol tetrabehenate

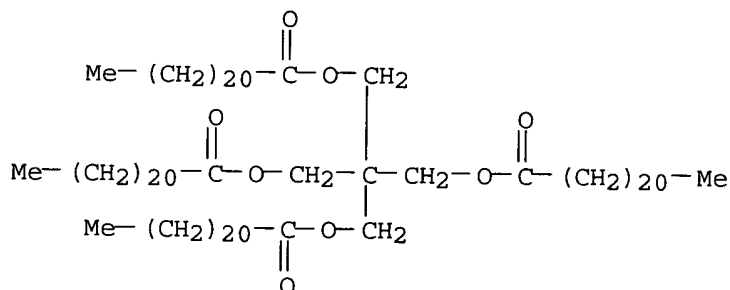
RL: TEM (Technical or engineered material use); USES (Uses)

(wax, **toner** contg.; electrostatic latent image-developing

toners contg. **polyester** binders and colorants with good thermal stability and transparency)

RN 61682-73-3 HCAPLUS

CN Docosanoic acid, 2,2-bis[[[(1-oxodocosyl)oxy)methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)



L13 ANSWER 8 OF 12 HCAPLUS COPYRIGHT 2003 ACS

AN 2002:153072 HCAPLUS

DN 136:207648

TI Electrophotographic development magenta **toner** showing excellent color reproduction, fixability, and offset-resistance

IN Ogura, Katsuyuki; Nakamura, Masanobu

PA Dainippon Ink and Chemicals, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

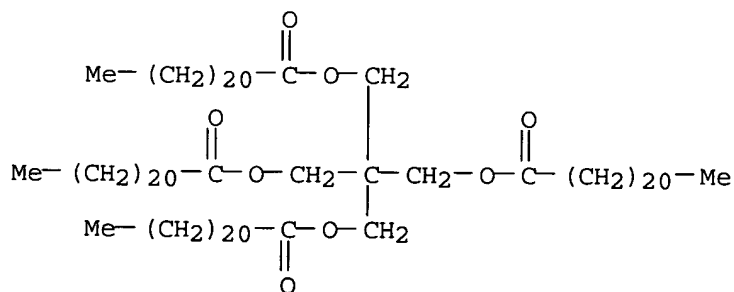
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002062689	A2	20020228	JP 2000-250961	20000822
				JP 2000-250961	20000822
TI	Electrophotographic development magenta toner showing excellent color reproduction, fixability, and offset-resistance				



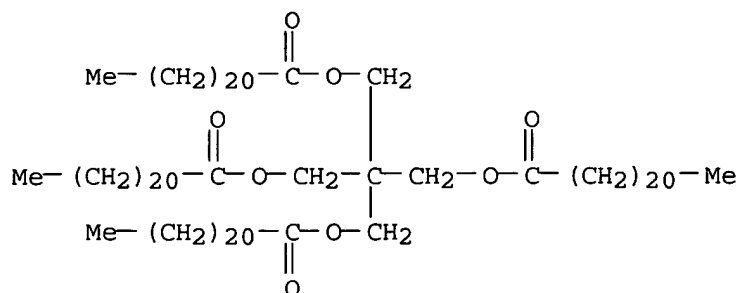
09/987464

TI Full-color **toner** for nonmagnetic one-component developer
IN Nakamura, Masanobu; Yoshida, Masahiro; Otsuka, Shunichi; Ogura, Katsuyuki
PA Dainippon Ink and Chemicals, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 17 pp.
CODEN: JKXXAF

DT Patent
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 2002006555	A2	20020109	JP 2001-122647	20010420
				JP 2000-120852 A	20000421
OS	MARPAT 136:93465				
TI	Full-color toner for nonmagnetic one-component developer				
AB	The title toner comprises a binder resin, a colorant, and a wax, wherein (a) the binder resin is a polyester having an acid value 5-30 and a ratio of an acid value (AV) to a hydroxyl value (OHV) (OHV/AV) 1.0-10.0,				
ST	full color toner wax polyester				
IT	Polyesters , uses RL: TEM (Technical or engineered material use); USES (Uses) (binder resin; full-color toner for nonmagnetic one-component developer)				
IT	Electrophotographic toners (full-color toner for nonmagnetic one-component developer)				
IT	138693-40-0P, Isophthalic acid-ethoxylated bisphenol A-propoxylated bisphenol A- terephthalic acid-trimellitic acid copolymer 147584-29-0P, Ethylene glycol- isophthalic acid-ethoxylated bisphenol A-propoxylated bisphenol A- terephthalic acid-trimellitic acid copolymer 150294-10-3P, Isophthalic acid-ethoxylated bisphenol A-propoxylated bisphenol A- terephthalic acid copolymer 158326-17-1P, Ethylene glycol- isophthalic acid-ethoxylated bisphenol A-propoxylated bisphenol A- terephthalic acid copolymer 175284-08-9P, Isophthalic acid-ethoxylated bisphenol A- terephthalic acid copolymer RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (binder resin; full-color toner for nonmagnetic one-component developer)				
IT	555-43-1 1119-74-0 61682-72-2 61682-73-3 344753-05-5 RL: TEM (Technical or engineered material use); USES (Uses) (wax; full-color toner for nonmagnetic one-component developer)				
IT	61682-73-3 RL: TEM (Technical or engineered material use); USES (Uses) (wax; full-color toner for nonmagnetic one-component developer)				
RN	61682-73-3 HCAPLUS				
CN	Docosanoic acid, 2,2-bis[[[(1-oxodocosyl)oxy]methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)				



L13 ANSWER 10 OF 12 HCAPLUS COPYRIGHT 2003 ACS

AN 2001:796491 HCAPLUS

DN 135:350492

TI Electrostatographic **toners** with improved anti-offset characteristics.

IN Nakamura, Masanobu; Karibayashi, Hideki

PA Dainippon Ink and Chemicals, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001305799	A2	20011102	JP 2000-125643	20000426
				JP 2000-125643	20000426

OS MARPAT 135:350492

TI Electrostatographic **toners** with improved anti-offset characteristics.

AB The disclosed **toners** comprises **polyester** resin binders, triboelec. charge controlling agent selected from nigrosine dyes or quaternary ammonium salts, and carboxylic acid ester type waxes having .gtoreq. 1 C12-40 hydrocarbonyl groups. The **toners** exhibit excellent fix-ability, stable triboelec. charge, and anti-offset characteristics.

ST electrostatog **toner** binder charge controller wax; electrophotog **toner** binder charge controller wax

IT Electrographic **toners**

Electrophotographic **toners**

(binder resin, triboelec. charge controller and waxes for)

IT **Polyesters**, preparation

RL: DEV (Device component use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(electrophotog **toner** binder resin)

IT 555-43-1 61682-72-2 **61682-73-3** 344753-05-5

RL: DEV (Device component use); USES (Uses)

(electrostatog. **toners** contg. ester-type waxes)

IT 124997-00-8P, Ethylene glycol-**isophthalic** acid-propoxylated

bisphenol A-**terephthalic** acid-trimethylolpropane copolymer

RL: DEV (Device component use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(**polyester** binder resin for electrostatog. **toners**)

IT 84135-36-4, Bontron N-01 88895-08-3, Bontron N-04 102561-46-6

142051-76-1 142052-00-4

RL: DEV (Device component use); USES (Uses)

(triboelec. charge controlling agent for electrostatog. **toners**)

IT

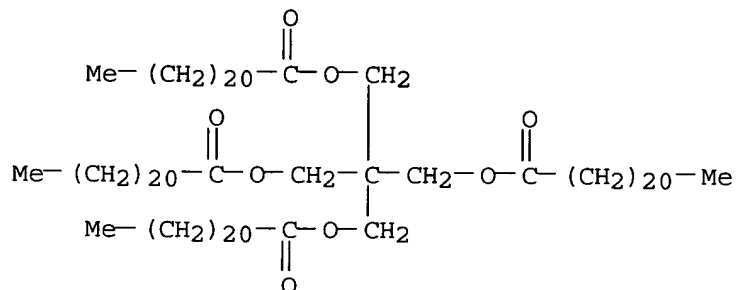
61682-73-3

09/987464

RL: DEV (Device component use); USES (Uses)
(electrostatog. **toners** contg. ester-type waxes)

RN 61682-73-3 HCAPLUS

CN Docosanoic acid, 2,2-bis[[(1-oxodocosyl)oxy]methyl]-1,3-propanediyl ester
(9CI) (CA INDEX NAME)



L13 ANSWER 11 OF 12 HCAPLUS COPYRIGHT 2003 ACS

AN 2001:376882 HCAPLUS

DN 134:359511

TI **Toner** for electrostatic image development and image forming
method employing the same

IN Gambayashi, Hideki; Nakamura, Masanobu; Kogawara, Toshiro; Amaya, Shinji

PA Dainippon Ink and Chemicals, Inc., Japan

SO Eur. Pat. Appl., 40 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1102127	A2	20010523	EP 2000-117305	20000818
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2001215756	A2	20010810	JP 1999-330977 A	19991122
			JP 2000-147962	20000519
			JP 1999-330977 A	19991122
US 6335139	B1	20020101	US 2000-642936	20000822
			JP 1999-330977 A	19991122

TI **Toner** for electrostatic image development and image forming
method employing the same

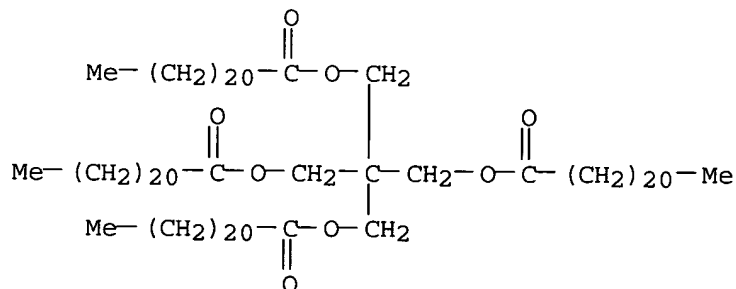
AB The present invention provides a **toner** for electrostatic image development which reconciles anti-offset properties and fixation properties and is superior in resistance to abrasion and peel. . . are conducted at a wide range of a fixing speed, particularly high speed which exceeds 20 or 30 m/min. The **toner** comprises a **polyester** resin, a colorant, and a releasing agent, wherein the flow beginning temp. Tfb of the **toner** as measured by a const. load extrusion type capillary rheometer is within a range of 70-105 .degree.C and the flow. .

ST electrophotog **toner** binder resin releasing agent colorant;
polyester resin; charge control agent; wax

IT Carbon black, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(Black Pearls 460; colorant in electrophotog. **toners**)

IT Paraffin waxes, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(Sasolwax H 1; releasing agent in electrophotog. **toners**)

- contg.)
- IT **Polyesters**, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(binder resin in electrophotog. **toners** contg.)
- IT Paraffin waxes, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(microcryst., oxidized, NPS 9210; releasing agent in electrophotog. **toners** contg.)
- IT Carnauba wax
RL: TEM (Technical or engineered material use); USES (Uses)
(releasing agent in electrophotog. **toners** contg.)
- IT Electrophotographic **toners**
(**toner** for electrostatic image development)
- IT 1317-61-9, Iron oxide (Fe₃O₄), uses
RL: TEM (Technical or engineered material use); USES (Uses)
(BL 200; colorant in electrophotog. **toners**)
- IT 53808-42-7P, **Terephthalic** acid-ethylene glycol-neopentyl glycol-trimethylolpropane copolymer 79293-17-7P, **Terephthalic** acid-ethylene glycol-ethoxylated bisphenol A copolymer 88285-63-6P, **Terephthalic** acid-ethylene glycol-propoxylated bisphenol A copolymer 124997-00-8P 125072-23-3P, **Terephthalic** acid-ethylene glycol-propoxylated bisphenol A-trimethylolpropane copolymer 141140-88-7P, **Terephthalic** acid-isophthalic acid-ethylene glycol-propoxylated bisphenol A-trimellitic acid copolymer 339205-21-9P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(binder resin in electrophotog. **toners** contg.)
- IT 88895-08-3, Bontron N 04
RL: TEM (Technical or engineered material use); USES (Uses)
(charge control agent in electrophotog. **toners**)
- IT 9010-79-1, Viscol 550P **61682-73-3**
RL: TEM (Technical or engineered material use); USES (Uses)
(releasing agent in electrophotog. **toners** contg.)
- IT **61682-73-3**
RL: TEM (Technical or engineered material use); USES (Uses)
(releasing agent in electrophotog. **toners** contg.)
- RN 61682-73-3 HCAPLUS
- CN Docosanoic acid, 2,2-bis[[[(1-oxodocosyl)oxy]methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)



L13 ANSWER 12 OF 12 HCAPLUS COPYRIGHT 2003 ACS
 AN 1996:657002 HCAPLUS
 DN 126:24838
 TI Electrophotographic **toner** binder composition
 IN Minami, Tohru
 PA Sanyo Chemical Industries, Ltd., Japan

09/987464

SO U.S., 10 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5567563	A	19961022	US 1995-482543	19950607
	EP 749048	A1	19961218	EP 1995-109055	19950612
	EP 749048	B1	20011010		
	R: DE, FR, GB				
	CN 1139222	A	19970101	US 1995-482543	19950607
				CN 1995-107655	19950623
				US 1995-482543	19950607

TI Electrophotographic **toner** binder composition
 ST binder compn org particle electrophotog **toner**

IT Electrophotographic **toners**
 (binder resins contg. dispersed org. particles for)

IT Acrylic polymers, uses
 Epoxy resins, uses
 Hydrocarbon waxes, uses
 Phenolic resins, uses
 Polyamides, uses

Polyesters, uses
 Polysiloxanes, uses
 Polyurethanes, uses
 Waxes

RL: TEM (Technical or engineered material use); USES (Uses)
 (electrophotog. **toners** with binder resin compns. contg.)

IT 110-31-6, N,N'-Ethylenebisoleylamide **115-83-3**, Pentaerythritol
 tetrastearate 9003-53-6, Polystyrene 126034-89-7, Ethoxylated
 Bisphenol A-propoxylated Bisphenol A-**terephthalic** acid copolymer
 RL: TEM (Technical or engineered material use); USES (Uses)

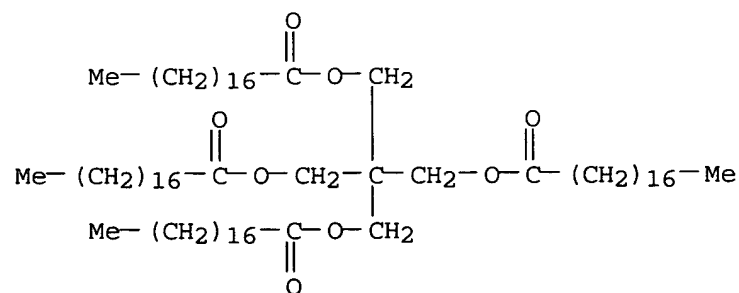
(electrophotog. **toners** with binder resin compns. contg.)

IT 9002-88-4, Polyethylene
 RL: TEM (Technical or engineered material use); USES (Uses)
 (wax; electrophotog. **toners** with binder resin compns. contg.)

IT **115-83-3**, Pentaerythritol tetrastearate
 RL: TEM (Technical or engineered material use); USES (Uses)
 (electrophotog. **toners** with binder resin compns. contg.)

RN 115-83-3 HCAPLUS

CN Octadecanoic acid, 2,2-bis[[[1-oxooctadecyl)oxy)methyl]-1,3-propanediyl
 ester (9CI) (CA INDEX NAME)



09/987464

L1 ANSWER 1 OF 1 CA COPYRIGHT 2003 ACS
AN 137:270494 CA
TI Electrophotographic toner and image forming method
IN Nakamura, Yasushige; Takahashi, Toru; Watanuki, Tsuneo; Sawatari, Norio;
Ishimaru, Seijiro; Furuse, Yasuyuki
PA Fujitsu Limited, Japan
SO U.S. Pat. Appl. Publ., 25 pp., Cont.-in-part of Appl. No. PCT/JP00/01678.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 2002136974	A1	20020926	US 2001-987464	20011114 <--
	WO 2001006322	A1	20010125	WO 2000-JP1678	20000317
	W: JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
PRAI	WO 2000-JP1678	A2	20000317		
	WO 1999-JP3822	W	19990715		